



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Specifications and Advertisement for Bids for Utility Vehicle for the Parks Department

MEETING DATE: November 16, 1994

PREPARED BY: Parks and Recreation Director

RECOMMENDED ACTION: That the City Council approve the specifications and authorize the advertisement for bids for one Utility Vehicle for the Parks Department.

BACKGROUND INFORMATION: The approved 1994/95 Budget includes funding for replacement of a 20-year-old Cushman scooter which is no longer operational.

Specifications are for the Mitsubishi SH27T Truckster, the Cushman 530 Runabout, and the Toro Workman 3000. While each vehicle offers advantages over the others (for example, the Mitsubishi has a closed cab for added driver safety, the Cushman has a short turning radius for ball diamonds, and the Toro has a greater load capacity), any of the vehicles would be adequate for the Department's needs.

The Department has explored the feasibility of specifying CNG or electric power for these vehicles. However, CNG is not recommended because of the size and weight requirements of the fuel tank, and electric is recommended primarily for transportation, rather than for working purposes.

FUNDING: 1994/95 Budget: \$13,000
Estimated Cost: \$11,500

BID OPENING: December 6, 1994

Ronald Williamson, Director, Parks & Recreation

APPROVED

THOMAS A. PETERSON
City Manager



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**TORO WORKMAN 3000
SPECIFICATIONS**

ENGINE	Rear engine location. Direct couple to transaxle. Mitsubishi Model 3G83, 3 cylinder, liquid cooled, counterbalanced, gasoline engine. 27 HP governed to maximum speed of 3600 RPM by mechanical governor.
CLUTCH	6.7 inch clutch and pressure plate.
INSTRUMENT PANEL	Fuel, coolant temperature and hour meter gauges. Warning light cluster includes engine low oil pressure and charge indicator.
BATTERY	12 volt, 370 cold cranking amps.
BED HEIGHT	27 inches
VEHICLE TYPE	4 wheel, step through, out front operator style.
TRANSMISSION	Rear transaxle configuration, twin axle drive. 3 speed synchromesh, H-shift pattern with high-low range, providing 6 forward speeds, 2 reverse.
FRONT SUSPENSION	Independent (A) frame control arm, dual coil springs, and dual shock absorbers with anti-sway bar.
REAR SUSPENSION	DeDion axle (weight carrying axle is independent of transaxle), leaf springs, and dual shock absorbers.
STEERING	Power assist
BRAKES	4 wheel hydraulic, dual safety circuit, self-adjusting drum. Hand actuated parking brake actuates rear brake shoes.
HYDRAULICS	Gear pump provides hydraulic flow for power steering and lift. Spin-on hydraulic oil filter.
AIR CLEANER	Heavy duty 2 stage air cleaner.
FUEL CAPACITY	7 gallon capacity.
RADIATOR	Mid-mounted with removable screen and lower clean-out access.
LIGHTS	Twin halogen headlights, taillights, stop lights and turning lights with indicator.

HORN	Button type
SEATS	Twin molded cushions and backrests, with shoulder and hip restraints.
INTERLOCKS	Clutch pedal must be depressed to start.
RATED CAPACITY	2,600 lbs.
WHEEL BASE	70 inches
TOW HITCH	Class 1 hitch accepts ball or 1.25 receiver.
CERTIFICATION	Certified to meet the American National Standard Institute's (ANSI) Specifications, B56.8-1988.
WARRANTY	One year limited warranty.
MANUALS	Repair manuals and parts manuals will be provided.

**SPECIFICATIONS
NITSUBISHI-SH27T TRUCK**

<u>Body</u>	Full cab with full doors w/ roll down windows & safety glass on sides, front and rear windows. Heater, defroster, Headlights, brake lights and turn signals. High roof. Galvanized-both sides of cargo floor. 4 cross members on frame and door reinforcements.
<u>Power</u>	Engine: 4 cycle, water-cooled, 30 h.p. inline 3 cylinder with balance shaft.
<u>Tires</u>	20x8.0-10 Turf.
<u>Brake system</u>	Hydraulic with brake booster. Front 7.5 inch drum. Rear 7.5 inch drum. Master cyl. .81 inches
<u>Parking brake</u>	To control rear wheels.
<u>Color</u>	White
<u>Seat capacity</u>	2 person
<u>Overall length</u>	127.2 in.
<u>Overall width</u>	59.8 in.
<u>Cargo box length</u>	76.4 in.
<u>Cargo box width</u>	52.4 in.
<u>Cargo box height</u>	11.8 in.
<u>Curb weight</u>	1588 lbs.
<u>Payload capacity</u>	1500 lbs. at 15 mph
<u>Minumum turning radius</u>	12.1 ft.
<u>Steering</u>	Rack & pinion
<u>Transmission</u>	3-speed manual
<u>Accessories</u>	Hour Meter, Audible back-up warning, Windshield Wiper, Parking brake indicator, Brake fluid level sensor, side marker lights, Full floor mats.

Electrical

12 volt system. Full transistor ignition system.

Additional Equipment

Cargo bed with Hydraulic dump and fold down sides with tailgate. Front bumper, Left and right outside mirrors, hazard warning flashers. Drive & passenger seatbelts. Horn, Speedometer with odometer.

Warranty

12 Month or 12,000 mile limited vehicle warranty.

Books

Parts manuel & Vehicle Service manuel

SPECIFICATIONS
MODEL 530 RUNABOUT

<u>Body</u>	3-Wheel turf chassis: Tow hitch: Front bumper: light switch: hand throttle.
<u>Braking</u>	Heavy-duty hydraulic , Self-adjusting, 9.0 inch x 1.50 inch. Cast iron drums
<u>Parking brake</u>	Foot-engaged disc-type brake on drive shaft.
<u>Color</u>	Two-tone green.
<u>Electrical System</u>	Charging: Heavy-duty 56 amp alternator Lights: Two sealed-beam headlights; Combination stoplight/taillight Wiring: Wiring harness with abrasion re- sistent loom; multiple plug-in connectors for accessories.
<u>Frame</u>	Heavy-duty carbon steel channel frame; Front bumper
<u>Performance</u>	Speed (max) 22.5 mph (governed)
<u>Power</u>	Engine: 22 h.p. OMC die-cast aluminum. Two horizontally opposed cylinders w/cast iron liners. Air cooled. 4-cycle.
<u>Clutch</u>	6.5 inch commercial
<u>Transmission</u>	H-shift pattern. 3-speed forward and 1 reverse. Synchromesh in second and high.
<u>Auxiliary Transmission</u>	Lever engaged 2:1 reducing auxiliary Integrated into the differential
<u>Differential</u>	Hypoid 7.12 inch truck hypoid drive 2.25 inch Bevel gears
<u>Seat</u>	Two-passenger, vinyl-clad seat with backrest and hip restraints/hand holds.
<u>Suspension</u>	Front: Leading-link type supported by two tension springs. Front shock absorbers. Rear: Two multiple leaf-type springs and shock absorbers.
<u>Tires</u>	Rear 24 x 13.00-12 turf tread Front 18 x 9.50-8 turf rib
<u>Rated Capacity</u>	2,500 lb

Specifications - Model 530 Runabout - Page 2 - Continued

<u>Hubs</u>	5-lugs Splined
<u>Wheels</u>	5-bolt pattern
<u>Steering</u>	Wheel type
<u>Auxiliary Hydraulics</u>	Modular connection box w/quick couplers
<u>Tailgate Release and Latch</u>	Automatically releases and latches with hydraulic dump
<u>Instruments</u>	Hour meter, fuel gauge, ammeter, horn Tachometer
<u>Attachments requiring hydraulics</u>	Flatbed and flatbed sides with tailgate
<u>Dealer</u>	Mirror set, turn signals.
<u>Manuals</u>	Repair manuals and parts manuals will be provided.

Duane Wright
Parks Mechanic
5-18-93

PRODUCT COMPARISON

PRODUCT NAME	TORO	CUSHMAN	MITSUBISHI
MADE IN	U.S.A.	U.S.A.	JAPAN
COMPANY NAME	TORO	RANSONES	MITSUBISHI
COMPANY FROM	MINNEAPOLIS MINNESOTA	ENGLAND	JAPAN
NUMBER OF WHEELS	4	3	4
LOAD CAPACITY	2600 LBS.	2500 LBS.	1676 LBS.
DRIVERS AREA	OPEN	OPEN	CLOSED
BRAKE SYSTEM			
POWER BRAKES	NO	NO	YES
DUEL MASTER CYL	YES	NO	YES
BRAKES ON WHEELS	4	2	4
BRAKE WARNING LIGHT	NO	NO	YES
BRAKE SIZE	8 INCH	9.0 X 1.50 IN.	7.5 INCH
PARKING INDICATOR	NO	NO	YES
ENGINE	27 H.P.	22 H.P.	30 H.P.
COOLING SYSTEM	LIQUID	AIR	LIQUID
NUMBER CYLINDERS	3	2	3
ELECTRIAL SYSTEM	12 VOLT	12 VOLT	12 VOLT
ALTERNATOR	40 AMP ALT.	58 AMP ALT.	40 AMP ALT.
HEADLIGHTS	YES	YES	YES
HIGH/LOW BEAM	YES	YES	YES
TAIL LIGHTS	YES	YES	YES
BRAKE LIGHTS	YES	YES	YES
SELF CANCELLING			
TURN SIGNALS	NO	NO	YES
BACK UP LIGHT	NO	NO	YES
EMERGENCY FLASHERS	NO	YES	YES
AUDIBLE BACK-UP			
INDICATOR WARNING	NO	NO	YES
SIDE MARKER LIGHTS	NO	NO	YES
2 SPEED WINDOW			
WPER	NO	NO	YES
STEERING	POWER ASSIST	GEAR	RACK & PINION
TURNING RADIUS	10 FEET	10 FEET	12.1 FEET
HYDRAULICS	YES	YES	YES
TRANSMISSION	3 SPEED	3 SPEED	3 SPEED
REVERSE GEAR	YES	YES	YES
SYNCHROMESH	ALL	2 ND & HIGH	ALL
AUXILIARY 2 SPEED	YES	YES	NO
HEATER	NO	NO	YES